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A FURTHER NEW SPECIES OF *Trophithauma* FROM CHINA

(Diptera: Phoridae)

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Abstract A new species, *Trophithauma gastroflavidum*, is described and illustrated. This species is easily distinguished from others by yellow color of its abdomenal segment 1 and a membranous process in segment 6. The type specimen is deposited in the Department of Plant Protection, Shenyang Agricultural University.

Key words Diptera, Phoridae, *Trophithauma*, New species, Taxonomy, China

The genus *Trophithauma* was erected by Schmitz in 1925 and at present contains only 6 species, i. e., *T. portentum* Schmitz from Costa Rica, *T. dissitum* Schmitz from the Philippines, *T. rostratum* (Melander *et* Brues) from North America, *T. pellucidum* Goto and *T. fulvum* Goto from Japan, and *T. sinuatum* Liu *et* Chou from China. In this paper a further new species from Southwest China is described and illustrated. The type specimen is deposited in the collection of the Department of Plant Protection, Shenyang Agricultural University(Shenyang, Liaoning Province).

Trophithauma gastroflavidum Liu, sp. n. (Figs. 1–3)

Female: Head width 0.56 mm. Frons width 0.28 mm, slightly broader than lateral height, shining black. Median furrow distinct. Pre-ocellar bristles further from each other than either is from a medio-lateral, which is slightly lower on frons. Antials about as far apart as pre-ocellars, closer to antero-laterals. A pair of antennals proclinate, about 1/3 as far apart as frons width. Third antennal segment globose, black; arista 0.6 mm, with long pubescence. Palps with short apical bristles.

Thorax largely shining black, but pale yellow on lower pleural regions. Scutellur

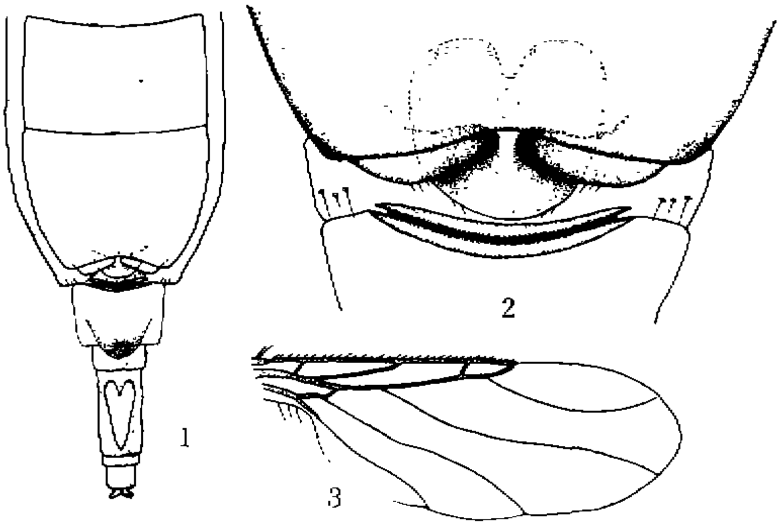
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with an anterior pair of small hairs and a posterior pair of bristles.

Abdomen with tergete 1 pale yellow and the other tergites black. Tergite 2 large, rectangular, 2 times as long as tergite 1. Tergite 3 is the longest of all, trapezoid. Tergite 4 partly concealed under the former and highly modified. It consists of two boot-shaped plates and a circular plate, which is concaved and with a gland opening. Tergite 5 and 6 very short, close to each other. Between them is a large glands opening. Segment 6 dorsally with a large membranous process.

Wing length 1.8 mm. Costal index 0.58. Costal ratio 2 : 1.6 : 1. Costal cilia 0.04 mm. All vein pale brown. R_{2+3} nearly vertical to costa. M_1 concave; M_1, Cu_1 and A bisinuate. Axillary margin with 3 hairs. Halter pale yellow.

Legs mainly pale brown, but hind legs duck brown. Fore-tibia without dorsal spines. Mid-tibia with a hair palisade running to 2/3 of length and with a postero-dorsal cilia. Hind tibia with a hair palisade and a postero-dorsal cilia.



Figs. 1-3 *Triphuthauma gastroflavidum* sp. n.
1. abdomen(dorsal view); 2 abdomenal tergites 3-6; 3. wing.

Body length 2 mm.

Male: unknown.

Holotype: ♀, China: Mengyang, Yunnan: 8-Ⅵ-1991: coll. by liu Guangchun.

This species is easily distinguished from others by yellow colour of its abdomenal segment 1 and a membranous process in segment 6.

Etymology: The specific name refers to colour of abdomenal segment 1.

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中国喙蚤蝇属一新种

(双翅目：蚤蝇科)

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A **摘要** 喙蚤蝇属 *Trophithauma* Schmitz 是一形态特异的类群。其雌性种类口上片延长，喙长，腹部第4—6背板特化成腺体。目前全世界仅记载6种。我国只记载1种(刘广纯等，1993)。本文描述1新种。模式标本存于沈阳农业大学植保系昆虫标本室。

黄腹喙蚤蝇 *Trophithauma gastroflavidum* Liu，新种

雌：体长2 mm。额黑色，有光泽。触角第3节黑色，球形；芒0.6 mm，具较长绒毛。下颚须黑色，具短鬃。胸背板和侧板下半部黑色；侧板下半部浅黄色。小盾片鬃1对，短毛1对。腹部第1节浅黄，其它节黑色。第Ⅳ—Ⅵ背板高度特化。翅长1.8 mm；前缘脉指数0.58，各段比2：1.6：1，前缘脉纤毛0.04 mm。腋区鬃3根，平衡棒浅黄。前、中足浅褐，后足深褐。中足栅毛列达胫节2／3；后足胫节栅毛列完整，具后背纤毛列。

正模：♀，云南勐养，1991-Ⅵ-8，刘广纯采。

关键词 双翅目，蚤蝇科，喙蚤蝇属，新种，中国